

In the Specification (Replacement Abstract):

The following replacement Abstract, believed consistent with MPEP 608.01(b), shall replace the prior version of the Abstract filed in the application.

Abstract

The present teachings provide methods and kits for detecting target nucleic acids. In some embodiments, a ligation probe set is used to query a target nucleic acid sequence, thus forming a test composition. One of the ligation probes comprises an addressable portion, which is incorporated into the test composition. The test composition can be amplified and detected in a real-time PCR containing a labeled probe, such as a 5' nuclease probe. The labeled probe comprises sequence complementary to the addressable portion, or comprises sequence complementary to the complement of the addressable portion, thus allowing for the economically beneficial use of redundant reagents across different target nucleic acids.